

ContainerMaid CM1000/500/250 Ozone generator

User Manual

This User Manual contains important information regarding the use, installation and safety of the product.

**PLEASE READ THE USER MANUAL BEFORE
INSTALLING AND OPERATING THE APPLIANCE**



Contents:

1. Explanation of Symbols used in this Manual
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CAUTION:

For safety reasons, this User Manual may not be changed except in cases permitted by Ozone Scandinavia AS. (Revised as of January 2015)

Be aware of the following warnings and cautions. Ignoring the following warnings and cautions may cause damage to the equipment and/or personal injury.

The appliance should only be operated after reading the manual, and with the user's due care and discretion. Particular care should be taken to make sure that no people or animals are put at risk by exposure to ozone gas.

CAUTION:

Special attention is required when using the equipment

WARNING:

Ignoring this warning may cause damage to the equipment and/or personal injury or death.

1. Explanation of Symbols used in this Manual

The following marks used on the Appliance and in this User Manual refer to the following contents. Warning stickers with these marks indicate that correct and safe usage of the Appliance is necessary to avoid any risk of personal injury or damage to the Appliance and your property.

**WARNING**

Ignoring this warning may cause damage to the equipment and/or personal injury or death.

**RISK OF ELECTRIC SHOCK**

- The appliance contains components that produce high voltages.
- The generator must be unplugged before servicing or maintenance is performed.
- Ensure that power to the device is disconnected before the front cover is opened.
- All parts must be correctly fitted before the appliance is put into operation. Ignoring this warning may cause personal injury or death.

**WARNING**

Risk of exposure to ozone gas O₃.

Ignoring this warning and inhalation of highly concentrated ozone gas can cause eye irritation and severe damage to the lungs.

2. General safety rules

Before using ContainerMaid for the first time:

1. Read the instructions carefully before installing and operating the appliance.

Make sure you or the person operating the ozone generator is in agreement with the instructions of this user manual and the attached document:

- Datasheet on Ozone

2. Place this manual within easy reach of the Appliance for reference purposes.

Should the Appliance be transferred to a new location or lent to a different user, please ensure the continuing safe and correct use of the Appliance by placing this user manual where it can be easily found by the next user.

3. This device should only be used for ozone treatment of air, and as described in this manual.

4. ContainerMaid is an electrical device that produces ozone gas.

For security reasons, you are obliged to pay attention the User Manual warnings, marked with symbols as described above. In addition, follow the local regulation and state recommendations regulating safety, health and environment.

(see attached datasheet for ozone and information regarding Ozone sensor below)

General safety rules - Continued



WARNING

Risk of exposure to ozone gas O₃.

Ignoring this warning and inhalation of highly concentrated ozone gas can cause eye irritation and severe damage to the lungs.

Ozonation should preferably occur outdoors or in well ventilated areas. If there is a danger that people or animals are residing in rooms while ozonizing, the ozone generator shall be switched off or controlled/ managed by an ozone sensor.

An ozone sensor, to ensure safe ozone levels, is required if the appliance is used in areas with inadequate ventilation and human traffic.

Ongoing ozonation should always be marked with warning signs clearly visible.

The appliance must not be used by persons (including children) with reduced physical, sensory or mental abilities, or persons lacking experience or knowledge, without supervision or instructions from a responsible person.



RISK OF ELECTRIC SHOCK

Electrical appliances are not intended for children!

Store and use the appliance away from children.

Be sure to ground the Appliance. Do not ground it to a gas pipe, water pipe, lightning rod or phone cable. Imperfect grounding may cause electric shocks. (Grounding should only be performed by a qualified electrician.)

3. CHECK THE PRODUCT:

1 pc ContainerMaid ozone generator comes with the following:

- 2 meters mounted grounded power cable with fixed plug
- Complete wall brackets with 4 screws
- 1 pc Hydrophobic Membrane Filter
- 1 pc User Manual for ContainerMaid
- 1 pc Datasheet ozone

The appliance should not be used if the supply cable or isolation appears damaged. Damaged equipment should be returned to the dealer or manufacturer.

4. INTENDED USE:

Powerful dust and splash resistant ozone generator (IP65) for odor removal in waste bins, containers, garbage rooms, compactors, cold storage rooms, ships, trucks, cars etc. IP65: ContainerMaid withstands splashes and humidity, but should never be immersed in water. Ozonation is an effective way to reduce unwanted odor by chemical oxidation of the odor source.

5. INSTALLATION, CONNECTION AND USAGE:

The appliance is attached to the wall with 4 screws and enclosed wall brackets. There should be an air gap between the wall and ContainerMaid of minimum 8 mm for cooling effect.

The appliance may be mounted with or without a Teflon hose (PTFE hose). If mounted with a hose, we recommend installing the appliance at a higher level than the odor source to ensure that the ozone hose (PTFE hose) leads the gas in a downward direction towards the source.

The appliance should always be installed with the power cable and ozone outlet pointing straight down.

Ozone gas is passed to the odor source through a 6 mm PTFE (Teflon) hose connected to the outlet (stainless fitting) of the underside of the appliance. The PTFE hose is supplied separately in desired length. The PTFE hose is fastened to the wall and led to the odor source.

PTFE tubing may be up to 50 feet / 15 m long.



Installation of 6mm teflon pipe

Installation on a waste compactor:

ContainerMaid is manufactured specifically for odor removal in compactors, but can also be used for other purposes.

Normally the ContainerMaid is mounted directly on the outside of the compactor (alternatively in the engine compartment). The 6mm Teflon tubing feeding the ozone gas should have its outlet into the throw-in compartment (odor source).

It is important to choose the right size and model of the appliance providing an optimal ozone concentration given the task to be solved.

In order to select the correct model, one must take into account the following:

- Size of the compactor
- Amount of trash
- Closed or open compactor
- Outdoor or indoor compactor
- Ambient temperature
- Ventilation
- Type odor source
- Intensity of smell

It is important to choose the correct strength generator, as ozone gas is oxidizing, and overexposure of the compactor may result in damaged rubber, hydraulic hoses, electric cables etc. If the compactor is empty over some time with ozonation, this may be especially important to take into consideration.

Timer:

With safety and best results in mind; let ozone concentration reflect odor concentration. It is often recommended to run the appliance at intervals via a timer. ContainerMaid is available with a built-in Timer (see separate manual enclosed).

WARNING:

Ensure that the power to the device is disconnected before opening the front cover of the chassis for setting of the built-in timer. Alternatively, use an external timer connected to the power supply.

The chassis is IP 65, i.e. dustproof and splash proof, but not waterproof. The appliance produces corona discharge and must not be installed in environments where there may be explosive gas mixtures.

ATTENTION! Ozone Sensor:

If ozone is supplied in a closed room where people or animals reside, an ozone sensor should be installed. The ozone sensor will shut off the power to the appliance if the ozone level in the room exceeds the limit for allowed concentration.

In Europe 0.1 PPM is the stated occupational exposure limit (upper limit) of the Labour Inspection for ozone. (How long people can stay continuously, up to 8 hours, without danger). Contact the manufacturer for guidance concerning ozone sensors.

Hydrophobic Membrane Filter:

Make sure the filter is mounted on underside of the appliance, in the middle plastic implementation. Plastic nut should be loosened and filter pushed into place, about 1.5 cm inward, and nut tightened carefully.



Change of Hydrofobic Membran Filter

Operations:

ON/OFF power switch with green lamp.

ON (indicating normal operation):

- Green operating lamp illuminated and a faint buzzing sound emits when ozonation is in process.
- Red indicator lamp (above) illuminated indicating high voltage.

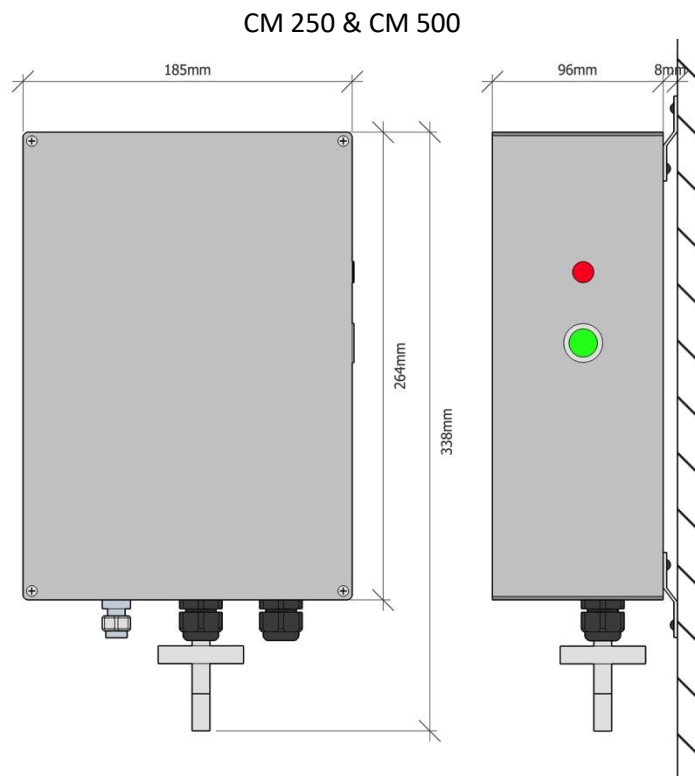
6. Maintenance:

Service should only be performed by authorized personnel.

Warning: If the ozone generator is mounted in such a way that condensation water may occur inside the Teflon tube, protective equipment should always be worn before disconnecting the Teflon tube. Condensation water running out of the tube containing ozone after disconnection, may be corrosive. Protective equipment to be used is goggles, rubber gloves and bare skin must be covered.

Contact dealer or manufacturer if maintenance is required.

7. TECHNICAL DATA:



TECHNICAL DATA continued

Model	CM 250	CM 500	CM 1000
Ozone technique	O ₃ quartz tube	O ₃ quartz tube	O ₃ quartz tube
Ozone production	250 mg/h	500 mg/h	1000 mg/h
Pump capacity	8 l/min	8 l/min	8 l/min
Timer	Opt.	Opt.	Opt.
Outlet for 6 mm PTFE hose	Yes	Yes	Yes
Measure (LxWxH) mm	280x190x90	280x190x90	300x210x100
Weight	3kg	3kg	4kg
Effect	65W	65W	65W
Voltage	230V	230V	230V
Power cable	2,0m	2,0m	2,0m
Chassis	Aluminum	Aluminum	Aluminum
Ambient temperature*)	-10°C to +40°C 14°F to 100°F	-10°C to +40°C 14°F to 100°F	-10°C to +40°C 14°F to 100°F
Ambient humidity	max 85%	max 85%	max 85%
IP class	65	65	65
CE-approved	Yes	Yes	Yes

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